ENVIRONMENTAL SERVICES DEPARTMENT

WASTE REDUCTION & DISPOSAL DIVISION

Environmental Management Program Final Report
(Fiscal Year 2008)

Introduction: This report summarizes the results of our Environmental Management Program (EMP) in meeting the Waste Reduction and Disposal Division's (WRAD) objectives and targets for fiscal year 2008 (July 2007-June 2008).
The following list of objectives and targets were developed and implemented into our EMP program for fiscal year 2008:

Regulatory Compliance (Continuous Improvement)

Objective - Mitigate fugitive dust and stormwater impacts on public access roadways and operating areas.
Target – Increase the serviceability of the landfills unimproved roadways and Last Chance Recycling Area, (LCRA), while simultaneously reducing the amount of water required for roadway dust control.
Program - Resurface LCRA and unimproved roadways with asphalt grindings to stabilize soil.
Results - The road crews were able to apply the grindings to all targeted areas, well in advance of the rainy season, thereby reducing the impact of storm events on the roadway. In addition the grindings also reduced the amount of water required for dust control by stabilizing the surface of the impacted areas.

Objective - Reduce the amount of purge water generated at the Miramar landfill during groundwater sampling events.
Target - 90% reduction (400 gallons) of purge water generated per GW sampling event at the Miramar Landfill.
Program - Conventional groundwater (GW) sampling techniques require one and one half bore hole volumes of water to be purged from GW wells before a representative sample can be collected for laboratory analysis. The purpose of this EMP is to reduce the amount of purge water to the maximum extent practicable using low-flow sampling methods while simultaneously reducing the time, effort and disposal costs associated with the GW sampling program.
Results - All targeted groundwater wells were upgraded on schedule. The results of the subsequent groundwater sampling event confirmed that targeted reductions in purged groundwater had been exceeded with a reduction of 428.5 gallons. This resulted in a 96% overall reduction in purge water from 446 gallons generated down to 17.5 gallons generated.

Prevention of Pollution (Continuous Improvement)

Objective - Mitigate fugitive Particulate Matter (PM) emissions in the Greenery's Komteck/Farwick (K/F) trommel screen.
Target - Optimize catalytic PM destruction of PM filter.
Program - Run Trommel Screen PM filter diagnostic and replace existing filter, if necessary, with PM filter optimized for engine operating temperatures.

Results - A diagnostic test was completed on the unit that determined that the catalytic filter did not meet the correct engine operating temperature specifications and therefore never reaches catalytic destruction operating temperatures. The result is that the particulate matter clogs the filter much faster than what the system was designed for thereby requiring monthly rather than yearly filter cleaning. Due to the excessive cost of a new filter it has been decided to keep the current filter until it reaches the end of its useful operational life.

Objective - Eliminate Particulate Matter (PM) exposure to ambient air from Trommel Screen Filter system
Target - Eliminate 100% of visible PM to ambient air during filter screen cleanout.
Program - Design and build filter cleaning unit and develop cleaning procedures that eliminates PM escaping to the ambient air during filter cleaning operation.
Results – Based on the results of the PM filter objective above, a vacuum and blower system was constructed, tested and is now in operation meeting all PM capture requirements.

Objective - Reduce PM emissions in tub grinder
Target - Reduce PM emissions 20% and NOx emissions by 51% from tub grinder operations.
Program - Replace wood processing tub grinder with Tier III engine equipped Belt Grinder.
Results – A new grinder has been purchased meeting Tier III standards has been purchased and is currently in operation.

Conclusion: All objectives and targets for this fiscal year have been met or in the case of the Trommel filter, mitigated. These particular environmental management programs will be closed out and new programs identified and implemented for fiscal year 2009.